

Congestion Mitigation and Air Quality (CMAQ) Application

Lyons Woods Trail Extension Multi-Use Path Commonwealth Edison Right-of-Way and Waukegan Park District

Lyons Woods Trail Extension
Multi-Use Pathway: Green Bay Road (FAU 2711)
to Robert McClory Bike Path
14-F3000-04-BT

City of Waukegan/
Village of Beach Park
Lake County, IL

Prepared for:
Lake County Forest Preserve District
1899 West Winchester Road
Libertyville, Illinois 60048
847-968-3262

Prepared by:
Gewalt Hamilton Associates, Inc.
625 Forest Edge Drive
Vernon Hills, Illinois 60061
847-478-9700

CMAQ/TAP FY 2016-2020 CMAQ PROJECT APPLICATION

BICYCLE FACILITY

I. PROJECT IDENTIFICATION					
Project Sponsors: Lake County Forest Preserve District and Waukegan Park District			Contact Information – Name, Title, Agency, Address, Phone, e-mail (e-mail required) Randall L. Seebach Lake County Forest Preserves 1899 West Winchester Road Libertyville, Illinois 60048 847-968-3262 / rseebach@lcfpd.org ENGINEER: Gewalt Hamilton Associates Inc. Todd Gordon 625 Forest Edge Drive Vernon Hills, Illinois 60061 847-478-9700 / tgordon@gha-engineers.com		
Other Agencies Participating in Project Waukegan Park District, City of Waukegan, Waukegan Township Highway Department					
<input checked="" type="checkbox"/> New Project <input type="checkbox"/> Existing CMAQ/TAP Project <input type="checkbox"/> Add CMAQ/TAP to Existing Project		TIP ID for Existing Project N/A			
II. PROJECT LOCATION <ul style="list-style-type: none"> Projects not readily identified by location must provide a title on the last line of this section Attach a map sufficient to accurately locate this project in a GIS system 					
Name of Street or Facility to be Improved Lyons Woods Trail			Marked Route # N/A		
Project Limits: North/West Reference Point/Cross St/Intersection 20' east of Green Bay Road (FAU 2711)/Green Bay Road and Paddock Ave			Marked Route # IL 131	Municipality & County Beach Park, Lake	
Project Limits: South/East Reference Point/Cross St/Intersection 0.1 miles east of Butrick Street at the McClory Bike Trail/near Butrick Street at Lizabeth Lane			Marked Route # N/A	Municipality & County Waukegan, Lake	
Other Project Location Information or Project Title Lyons Woods Bike Path located along the ComEd Right of Way					
III. PROJECT FINANCING AND CMAQ FUNDING REQUEST Please review the instructions.					
	Starting Federal Fiscal Year*	Total Phase Costs	(New) CMAQ/TAP Funds Requested	Other Federal Funds Including prior CMAQ/TAP awards	
				Fund Type	Amount
Engineering Phase 1	2014	\$95,000	\$0		\$0
Engineering Phase 2	2015	\$200,000	\$0		\$0
Right-Of-Way Acquisition	N/A	\$0	\$0		\$0
Construction (Including Construction Engineering)	2016	\$2,500,000	\$2,000,000		\$0
Engineering (For Implementation Projects)		\$0	\$0		\$0
Implementation		\$0	\$0		\$0
Alternatives Analysis		\$0	\$0		\$0
*Phase must be accomplished within 3 years		\$2,795,000	\$2,000,000		
Total Project Costs					
*For TAP funds, cost increases beyond the initial programmed amounts will be the responsibility of sponsors.					
Source Of Local Matching Funds		Lake County Forest Preserve District			
If Soft Matching Funds Are Intended To Be Used, Please Contact CMAP Staff.					
Have The Matching Funds Been Secured? (Provide Details):		The Lake County Forest Preserve District have approved the local matching funds for the project at the LCFPD Joint Finance and Planning Committee meeting on Jan 29, 2015 as part of the Forest Preserves 5-Year Capital Improvement Plan. Meeting agenda attached.			

CMAQ/TAP FY 2016-2020 CMAQ PROJECT APPLICATION

BICYCLE FACILITY – PAGE 2

IV. PROJECT EMISSIONS BENEFIT DATA

Indicate the current status of the bicycle environment where the proposed facility will be constructed. Are bike lanes present? If so, give width.

On the east end of the project, there is an existing Regional Bike Path (Robert McClory Bike Path) under the jurisdiction of the Lake County Division of Transportation. On the west end, there are no bicycle facilities currently present. Along the ComEd property and the Waukegan Park District properties (Bevier Park and Henry Pfau Callahan Park) where the trail is to be built, there are no bicycle facilities. This trail will provide a connection and access to the Lyons Woods Forest Preserve and its facilities as well as direct connections to Bevier Park and Henry Pfau Callahan Park. The future improvements of Green Bay Road will include a bike trail within the IDOT ROW north to Yorkhouse. This segment of trail will be an important link between the Waukegan Savanna and Lyons Woods Forest Preserves. Ultimately this trail is then planned to be routed through the Waukegan Savanna Forest Preserve to the Regional DesPlaines River Trail System. The proposed trail is part of the Lake County Forest Preserves Master Plan for Regional Trail Connections, as well as the Lake County Division of Transportation 2040 Non-Motorized Plan and has been listed on the 2009 version of the Northeastern Illinois Regional Greenways and Trails Plan prepared by the Chicago Metropolitan Agency for Planning (CMAP). Both Forest Preserves (Lyons Woods and Waukegan Savanna) provide extensive trail systems. The Robert McClory Bike Path is a major regional trail providing connections to the North Shore Bike path which ultimately connects to the Des Plaines River Trail creating a fluid regional trail system. This proposed trail will provide a missing link between three (3) Forest Preserves, two (2) local park sites as well as creating a more extensive regional trail network that will serve and connect the northeast area communities (Waukegan, Beach Park, Zion) of Lake County with existing regional trail facilities.

Indicate the connectivity of bikeways resulting from the project:

- ☐ Project fills a gap between existing bikeways ☒ Project intersects an existing bikeway
☐ Project extends an existing bikeway ☐ Project is a new isolated bikeway segment

Describe how the proposed bicycle facility integrates with transit service.

The proposed path crosses several Pace bus routes throughout Waukegan and Beach Park. Where the path crosses Lewis Avenue, Pace route 569 is present and along McAree Road, Pace routes 561 and 566 are present. All of these routes service many locations in Waukegan including various shopping centers, Waukegan High School, and other park and school locations.

Provide the following for the road(s) of the facility or adjoining to the off-road facility (use separate sheet for multiple roads):

Streets listed in order from east to west. See other streets on the following page

Butrick Street (Station 96+39)

Traffic volumes (AADT): <1,500, # of Thru Lanes 2, Lane Width: 15',
Width of Outside Paved Shoulder: N/A, Speed Limit: 20 mph, % of Heavy Vehicles: N/A,
Pavement Condition : fair, % of On-street Parking Occupied: 0%.

Is the project identified in an approved or adopted plan: ☒ Yes ☐ No

Attach documentation of the plan or provide a link to the document on a publicly available website.

V. PROGRAM MANAGEMENT INFORMATION

Is Right-Of-Way Acquisition required for this project? ☐ Yes ☒ No If so, has it been acquired? ☐ Yes ☐ No

Preliminary Design Status: ☐ N.A. ☐ Not Begun ☐ Agreement executed by Central Office ☒ Engineering Underway
☐ Submitted for review ☐ Responding to review comments
☐ Agreement sent to District 1 for signatures ☐ Design approval granted
Date approval is anticipated or was granted: 08/15

Estimated Completion (Construction) Year: 2016

VI. PROJECT DESCRIPTION

Please describe improvements, including how the project integrates in to the area with regard to different trip attrators.

The project proposes construction of a multi-use bicycle/pedestrian trail with connections to existing regional trail systems. The proposed trail will extend west from the Robert McClory Bike Trail to just east of the Green Bay Road Right of Way. The trail alignment follows the ComEd ROW west from the McClory path, crosses Lewis Avenue at a proposed signalized crossing, enters into Waukegan Park District, Bevier Park, providing a connection to the existing parking lot there and crosses the Waukegan River requiring a short (<50-feet) bridge section. The trail will then continue west through the park crossing McAree Road into Waukegan Park District, Henry Pfau Callahan Park then turning south and continuing along the ComEd ROW to just east of Green Bay Road, terminating in a "cul-de-sac". The proposed trail will create a non-vehicular route for a number of different user groups in the northeast area of Lake County including the communities of Waukegan, Beach Park and Zion, as well as provide a regional connection with Lake County and beyond. It will provide connections to the extensive regional trail system, schools, shopping, and Metra Stations (along the Robert McClory Path). This trail will provide access to the Lyons Woods Forest Preserve and its facilities. As Green Bay Road is improved, this segment of trail will be an important link between the Waukegan Savanna and Lyons Woods Forest Preserves, both of which provide extensive trail systems. Ultimately this trail is then planned to be routed through the Waukegan Savanna Forest Preserve to the DesPlaines River Regional Trail System. These links are part of the Lake County Forest Preserves Master Plan for Regional Trail Connections and the Lake County Division of Transportation's 2040 Non-Motorized Plan and has been listed on the 2009 version of the Northeastern Illinois Regional Greenways and Trails Plan prepared by the Chicago Metropolitan Agency for Planning (CMAP). The Robert McClory Bike Path also provides connections to the North Shore Bike Path which connects to the Des Plaines River Trail creating a fluid regional trail system. This trail will:

- Achieve greater livability through land-use and will reduce congestion, saving fuel, reducing emissions including greenhouse gases, and improving air quality. A side benefit will be the promotion of physical activity and health in the community.
- Will serve as a key link in the Lake County Forest Preserve Districts three forest preserves, two local park sites as well as regional connections to the Robert McClory Bike Path, DesPlaines River Trail and other regional trail systems.
- Will eliminate a barrier and create a safe passageway between existing parks and forest preserves contributing to the regional user's well-being by providing access to open space.

The Phase I Study portion of the project is being funded jointly by the Lake County Forest Preserve District, the Waukegan Park District, the City of Waukegan and the Waukegan Township Highway Department. The Phase II Design is being funded by the Lake County Forest Preserve District. The Phase I Project Development Report and the Phase II Final Engineering Plans will be co-signed by both the Lake County Forest Preserve District and the Waukegan Park District. In addition, the Waukegan Township Highway Department is proposed to be responsible for the long term maintenance of the new trail through the ComEd properties.

Additional Street Crossing Locations (from east to west):

Lewis Avenue (Station 75+29)

Traffic volumes (AADT): 20,000, # of Thru Lanes 4, Lane Width: 10',
Width of Outside Paved Shoulder: N/A, Speed Limit: 35 mph, % of Heavy Vehicles: 2-4%,
Pavement Condition : fair, % of On-street Parking Occupied: N/A.

McAree Road (Station 44+60)

Traffic volumes (AADT): 4,650, # of Thru Lanes 2, Lane Width: 13,
Width of Outside Paved Shoulder: N/A, Speed Limit: 30 mph, % of Heavy Vehicles: Not Available.,
Pavement Condition : fair, % of On-street Parking Occupied: N/A.

Metropolitan Avenue (Station 26+95.60)

Traffic volumes (AADT): <1,500, # of Thru Lanes 2, Lane Width: 10',
Width of Outside Paved Shoulder: N/A, Speed Limit: 20 mph, % of Heavy Vehicles: N/A,
Pavement Condition : poor, % of On-street Parking Occupied: 0%.

DETAILED ESTIMATE OF COSTS

Item	Description	Unit	Quantity	Unit Price	Total
20100200	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1,000	\$24.00	\$24,000.00
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	800	\$30.00	\$24,000.00
	BRUSH CLEARING (SPECIAL)	EACH	1	\$12,000.00	\$12,000.00
20200100	EARTH EXCAVATION	CU YD	13,000	\$30.00	\$390,000.00
20201200	SUBGRADE REMOVAL & REPLACEMENT (SPECIAL)	CU YD	250	\$60.00	\$15,000.00
20400800	FURNISHED EXCAVATION	CU YD	20,000	\$14.40	\$288,000.00
20800150	TRENCH BACKFILL	CU YD	20	\$33.00	\$660.00
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	32,000	\$3.60	\$115,200.00
21400100	GRADING & SHAPING DITCHES	FOOT	15,300	\$3.60	\$55,080.00
25000210	SEEDING, CLASS 2A	ACRE	6.60	\$7,200.00	\$47,520.00
25100630	EROSION CONTROL BLANKET-NAG S150	SQ YD	32,000	\$1.80	\$57,600.00
28000300	TEMPORARY DITCH CHECK	EACH	60	\$96.00	\$5,760.00
28000400	PERIMETER EROSION BARRIER	FOOT	10,200	\$3.00	\$30,600.00
35101800	AGGREGATE BASE COURSE, TYPE B 5"	SQ YD	12,500	\$14.40	\$180,000.00
40603335	HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2,000	\$96.00	\$192,000.00
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,400	\$9.60	\$13,440.00
42400800	DETECTABLE WARNINGS	SQ FT	100	\$36.00	\$3,600.00
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	100	\$12.00	\$1,200.00
44000600	SIDEWALK REMOVAL	SQ FT	400	\$4.80	\$1,920.00
54215550	METAL END SECTIONS, 15"	EACH	18	\$900.00	\$16,200.00
54215556	METAL END SECTIONS, 21"	EACH	4	\$1,500.00	\$6,000.00
	PIPE CULVERTS, 12" HDPE	FOOT	360	\$54.00	\$19,440.00
	PIPE CULVERTS, 18" HDPE	FOOT	80	\$66.00	\$5,280.00
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	100	\$54.00	\$5,400.00
67100100	MOBILIZATION	EACH	1	\$72,000.00	\$72,000.00
Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	850	\$24.00	\$20,400.00
	PAVEMENT MARKINGS & SIGNAGE	EACH	1	\$12,000.00	\$12,000.00
	RECTANGULAR RAPID FLASHING BEACON (SPECIAL)	EACH	1	\$18,000.00	\$18,000.00
	STEEL PEDESTRIAN BRIDGE(CREEK CROSSING)	EACH	1	\$210,000.00	\$210,000.00
	PEDESTRIAN TRAFFIC SIGNAL	EACH	1	\$300,000.00	\$300,000.00
	TRAFFIC CONTROL AND PROTECTION	EACH	1	\$108,000.00	\$108,000.00
	WETLAND MITIGATION	ACRE	0.1	\$120,000.00	\$12,000.00
TOTAL COST OF ITEMS:					\$2,262,300.00

ESTIMATES MUST BE BASED UPON QUANTITIES AND UNIT COSTS WHENEVER POSSIBLE.
LUMP SUM AMOUNTS ARE NOT ACCEPTABLE

PROJECT MILESTONE SCHEDULE

Municipality: Lake County Forest Preserve
 Project: Lyons Wood Trail
 Scope of Work: Bicycle/Pedestrian Facility
 TIP #: _____
 TIP Years (Ph II / Const): _____
 Section #: 14-F3000-04-BT
 Last Constr & E3 Cost (date _____): \$ _____
 Current Constr & E3 Cost (date: 1/29/15): \$ 2,500,000

Contact Information

Municipality	<u>Randall Seebach / Lake County Forest Preserve</u>
Council/Liaison	<u>Lake County / Bruce Christensen</u>
Consultant	<u>Todd Gordon / Gewalt Hamilton Associates</u>
IDOT	<u>Alex Househ</u>

Date Prepared: 1/28/2015

Date Revised: _____

Projected Dates

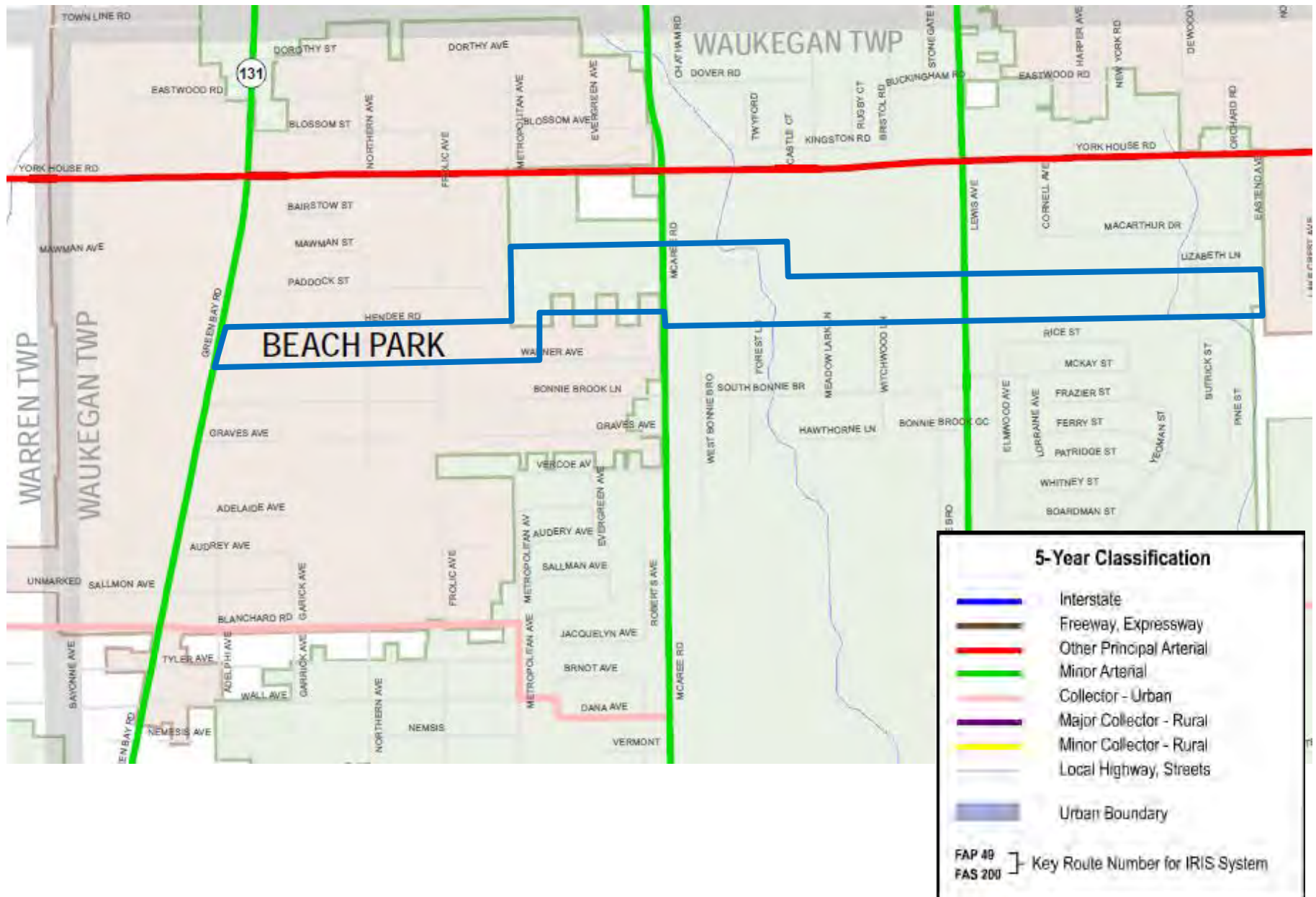
1. Project Scoping
2. IDOT Phase I Kick-off Meeting
3. 1st State/Federal Coordination Meeting
4. Categorical Exclusion Concurrence
5. Design Variance Concurrence
6. Submit Draft Phase I Report (PDR) to IDOT (a)
7. Public Hearing/Meeting (or N/A)
8. Right-of-Way Kick-off Meeting (or N/A)
9. Submit Final Phase I Report (PDR) to IDOT (b)
10. Submit Phase II Engr. Agreem't to IDOT (or N/A)
- 11. Phase I Design Approval**
12. ROW Aquisition Initiation (or N/A) (c)
13. Phase II Engr. Agreement Approval (or N/A)
14. Submit Pre-Final Plans and Estimates (d)
15. Submit Phase III Engr. Agreement to IDOT
16. Submit Final Plans, Specs & Estimates (PS&E) (e)
17. ROW Acquisition Complete
- 18. Construction Letting**

Initial	Est.	Kick-Off	Revised/Actual	Notes
			12-Sep-14	
			17-Oct-14	
			17-Oct-14	CE II - Per FHWA Meeting
	N/A			
	Mar-15			
			See Notes	7/24/14; 8/26/14; 9/2/14; 9/16/14; 9/25/14
	N/A			
	May-15			
	N/A			Phase II - to be Locally Funded and to begin June 2015
	Aug-15			Estimated
	N/A			
	N/A			Phase II - to be Locally Funded and to begin June 2015
	Nov-15			
	Mar-16			
	Jan-16			
	N/A			
	Apr-16			

Notes:

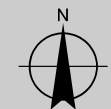
- (a) 3 to 6 month review required per complexity and submittal quality
- (b) 1 to 3 month review
- (c) Minimum 9 to 18 months required from plats to acquisition
- (d) 1 to 4 month review
- (e) 7 to 10 days before Springfield BLR due date

See IDOT Local Roads' **Mechanics of Project Management**
 "Federal Aid Project Initiation to Completion" Flow Chart for
 sequence of events and estimated review times.



Study Limits – Com-Ed ROW from Green Bay Road (IL 131) to Robert McClory Bike Path; Beach Park and Waukegan, IL

Sources:



1 inch = 200 Feet

Map Center: -87.87652 42.40655

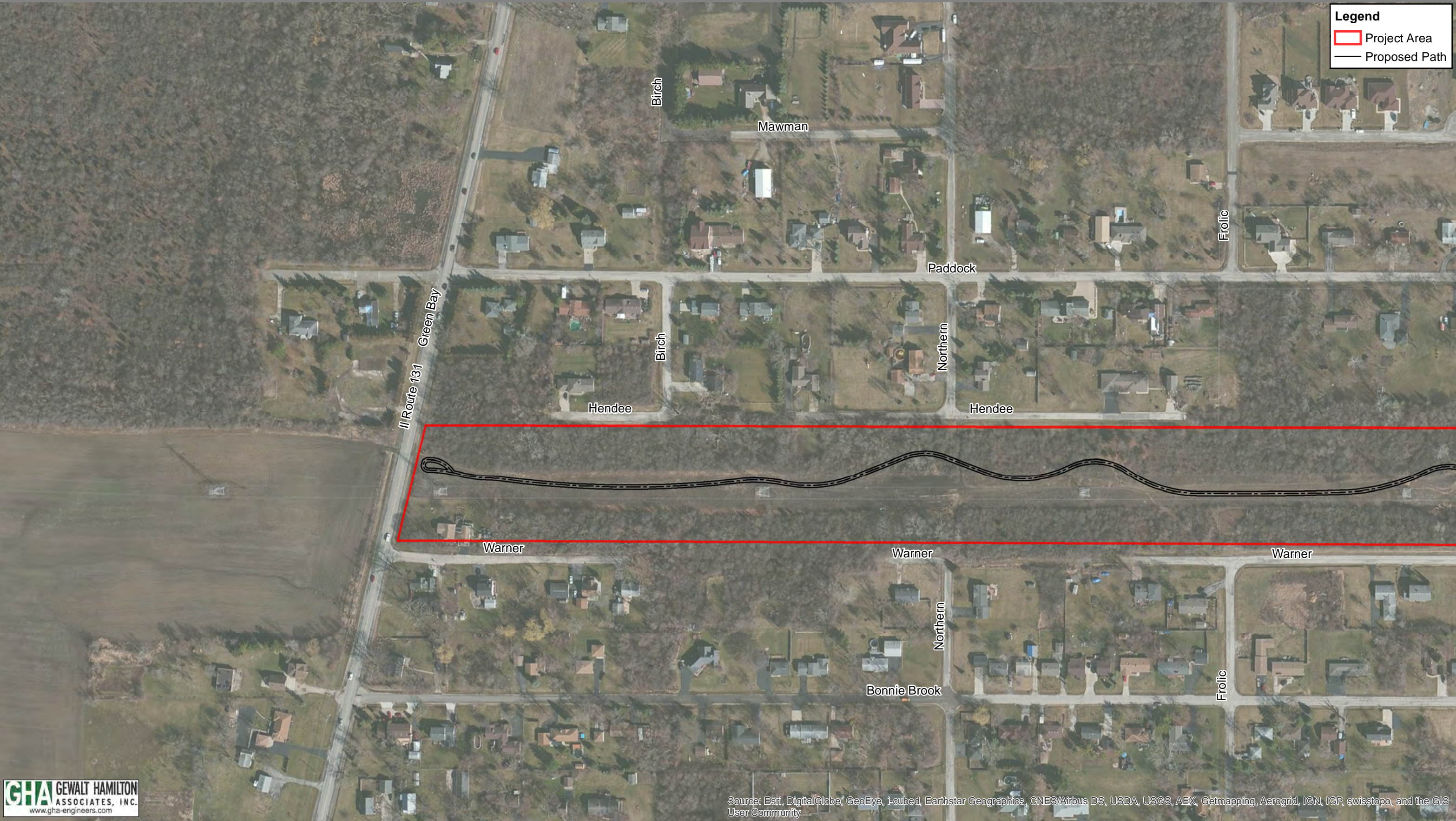


Exhibit 1: Location Map, Sheet 1 of 3

LCFPD Lyons Wood to Waukegan Savannah Trail
Lake County, IL

Date: 1/28/2015 Project: 4905.000

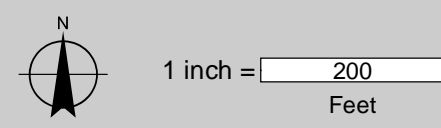
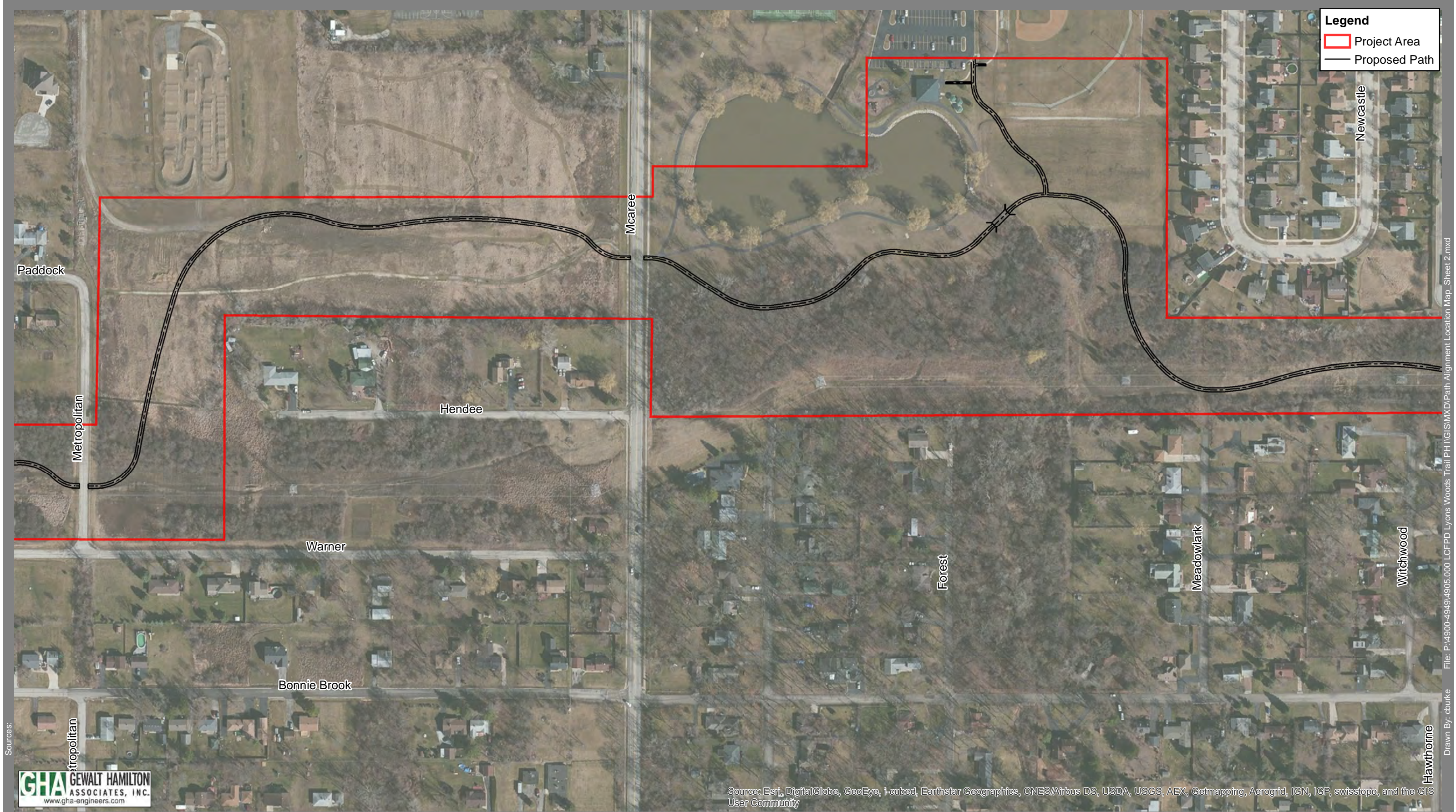


Exhibit 1: Location Map, Sheet 2 of 3

LCFPD Lyons Wood to Waukegan Savannah Trail
Lake County, IL

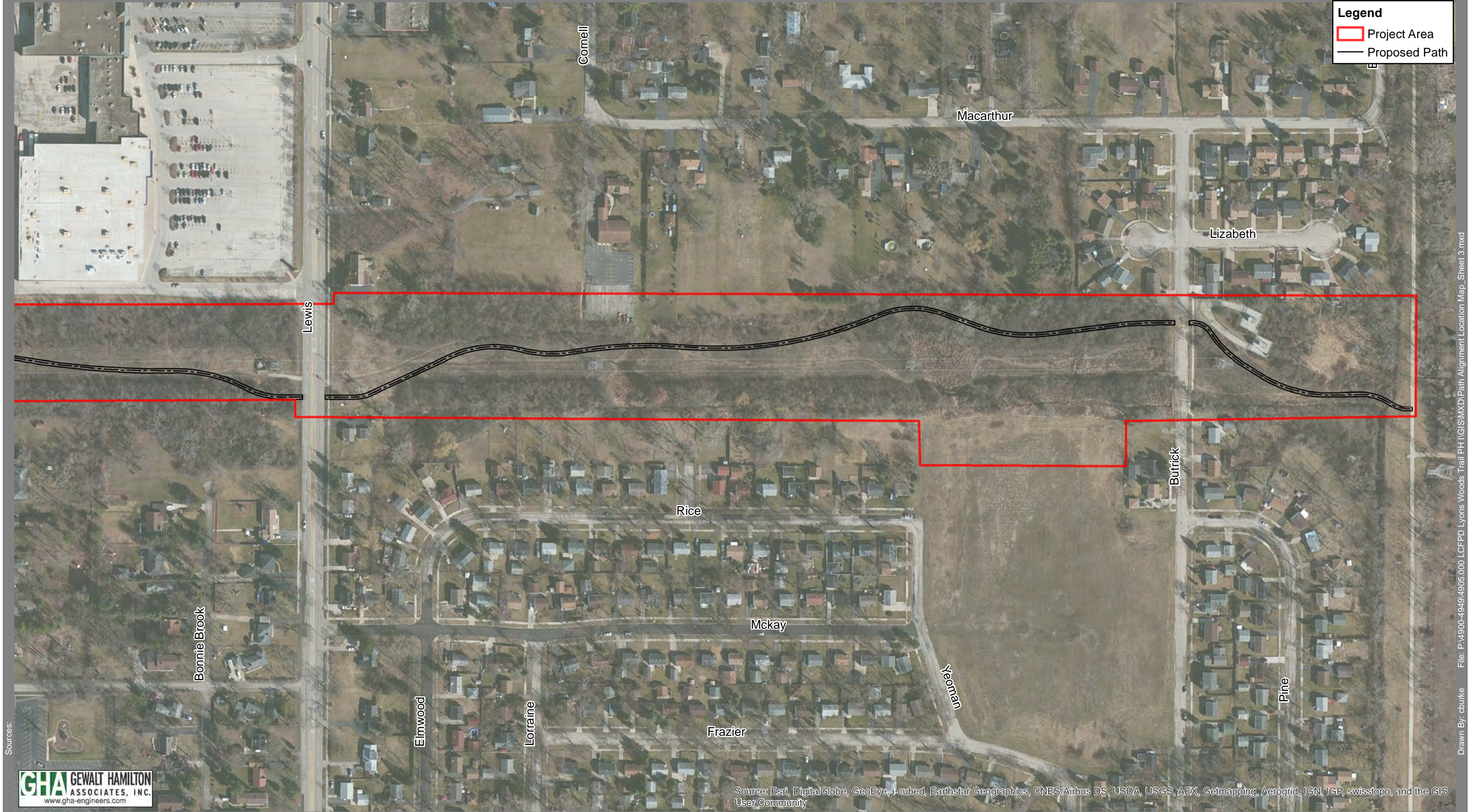


Exhibit 1: Location Map, Sheet 3 of 3

LCFPD Lyons Wood to Waukegan Savannah Trail
Lake County, IL



WAUKEGAN PARK DISTRICT

2000 BELVIDERE ST. • WAUKEGAN, IL 60085-6172 • PHONE (847) 360-4711 • TTY (847) 662-3800 • WWW.WAUKEGANPARKS.ORG

October 2, 2014

Alex Ty Kovach
Executive Director
Lake County Forest Preserves
1899 West Winchester Road
Libertyville, Illinois 60048

Re: Lake County Forest Preserve District
Lyons Woods to Waukegan Savanna – Trail Connection
Letter of Commitment

Dear Mr. Kovach:

Based on our discussions, the Waukegan Park District Board understands that the Lake County Forest Preserve (LCFPD) has begun the planning of a trail extension between the Lyons Woods Forest Preserve and the Waukegan Savanna Forest Preserve that will eventually connect to the Des Plaines River Trail. This proposed connection is an important east-west trail connecting the northeast communities of Lake County and Waukegan Park District recreational facilities with the Forest Preserve's regional trail system.

It is understood that the LCFPD is pursuing federal funding, and will be making an application for Congestion Mitigation and Air Quality (CMAQ) Program funding participation to assist with construction costs of the first stage of the trail that is proposed to be extended from the Robert McClory Trail to IL 131 (Green Bay Road). It is also understood that the trail is proposed to be routed through the Commonwealth Edison right-of-way. The trail will extend through both Bevier Park and Henry Pfau Callahan Park, which are owned and maintained by the Waukegan Park District.

As part of the planning and design process, it is understood that the LCFPD is required to complete a preliminary engineering (Phase I) study and later prepare final design (Phase II) plans. Both the study and design plans are to be funded locally. As a partner to this proposed trail project, this letter will serve as a commitment by the Waukegan Park District to be a co-signer on the Phase I Project Development Report and the Phase II Final Engineering Plans.

We look forward to working with you and the LCFPD on this important project.

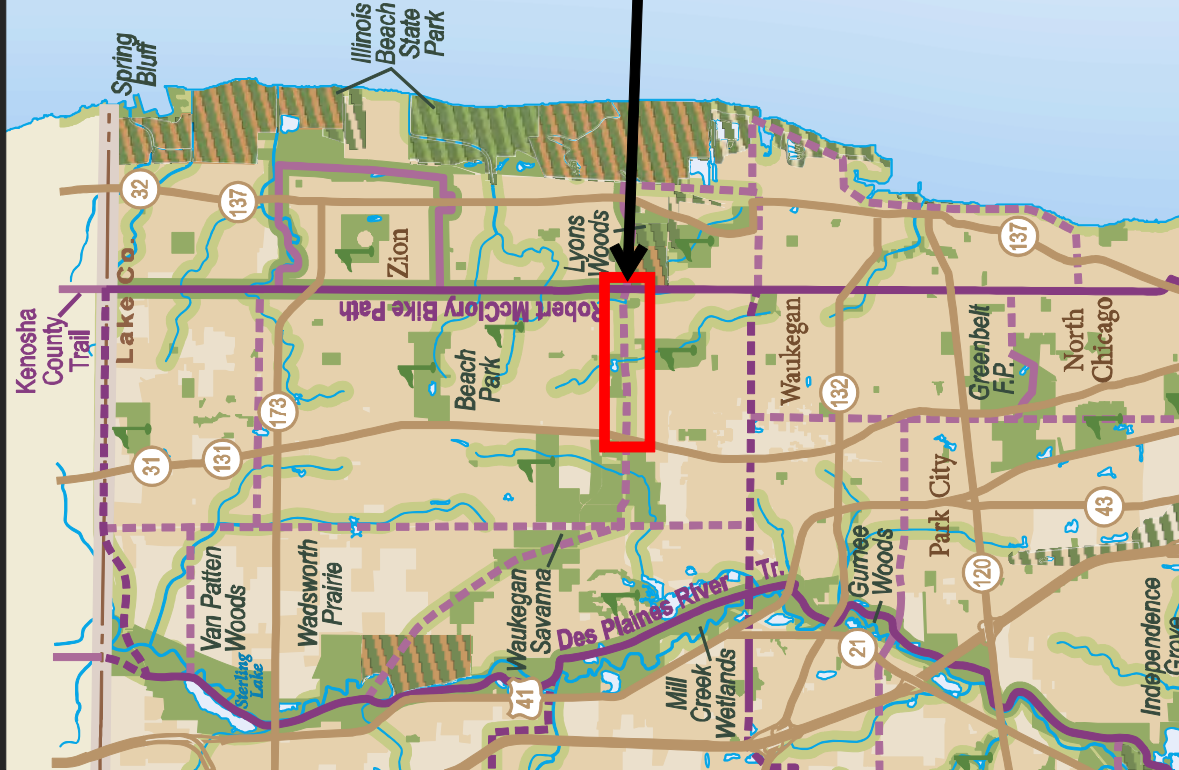
If you should have any questions or require additional information, please do not hesitate to contact me.

Sincerely,


Greg Petry, CPRE
Executive Director

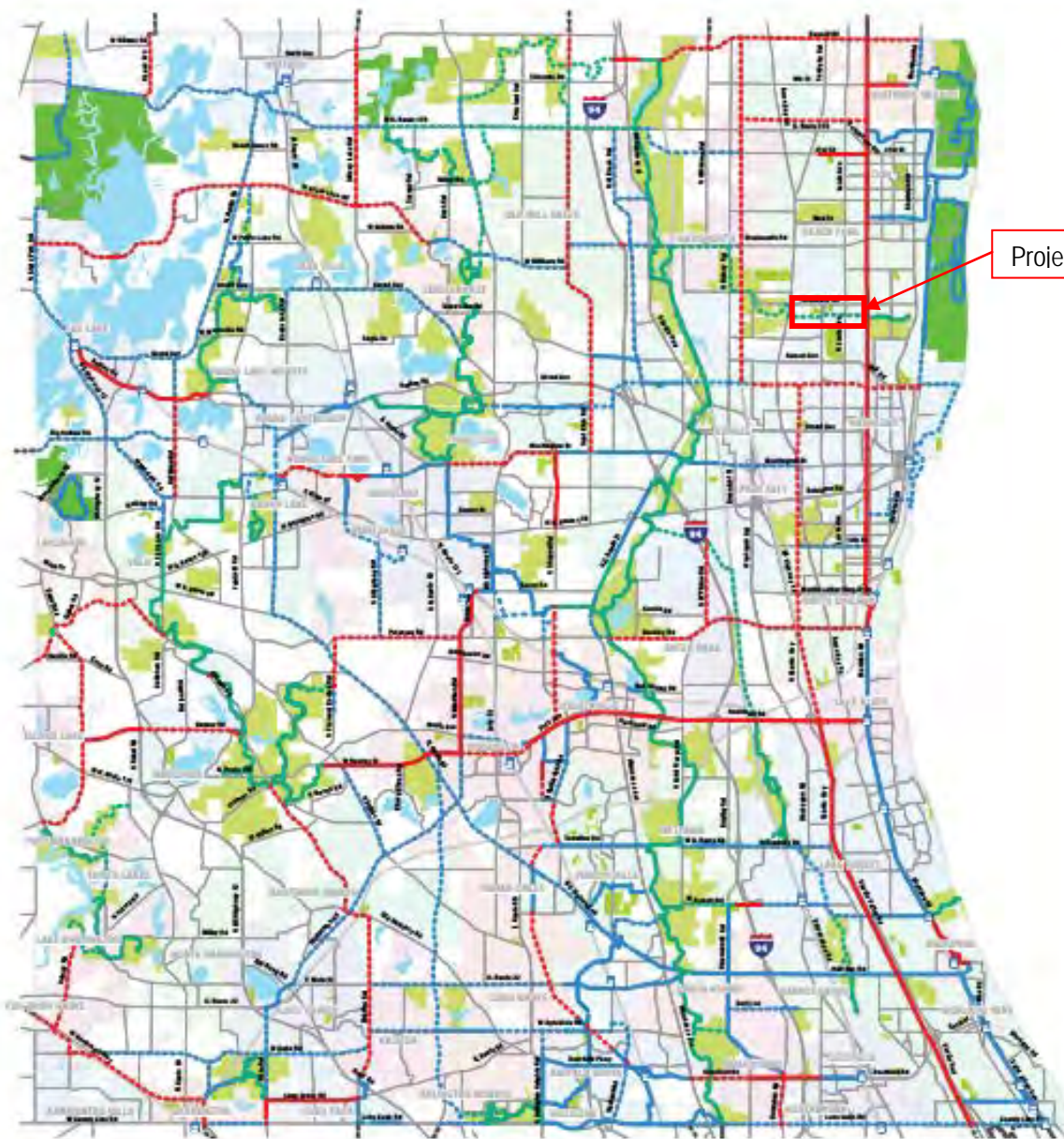
Northeastern Illinois Regional Greenways and Trails Plan 2009 Update

Project Location



A large number of proposed trails are conceptual; final alignments would be determined by the jurisdiction's planning and engineering processes. Greenways on the map do not imply specific widths, design characteristics, or management approaches. These should be determined through detailed planning for the individual greenways.

The Illinois Natural Areas Inventory Sites are current as of 2009. Illinois Nature Preserves are current as of 2009. Additional information can be obtained from



Project Location



2040 NON-MOTORIZED PLAN

LEGEND

PLANNED BIKEWAYS

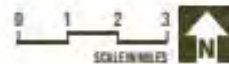
- Lake County Division of Transportation
- Lake County Forest Preserves
- Other Jurisdiction

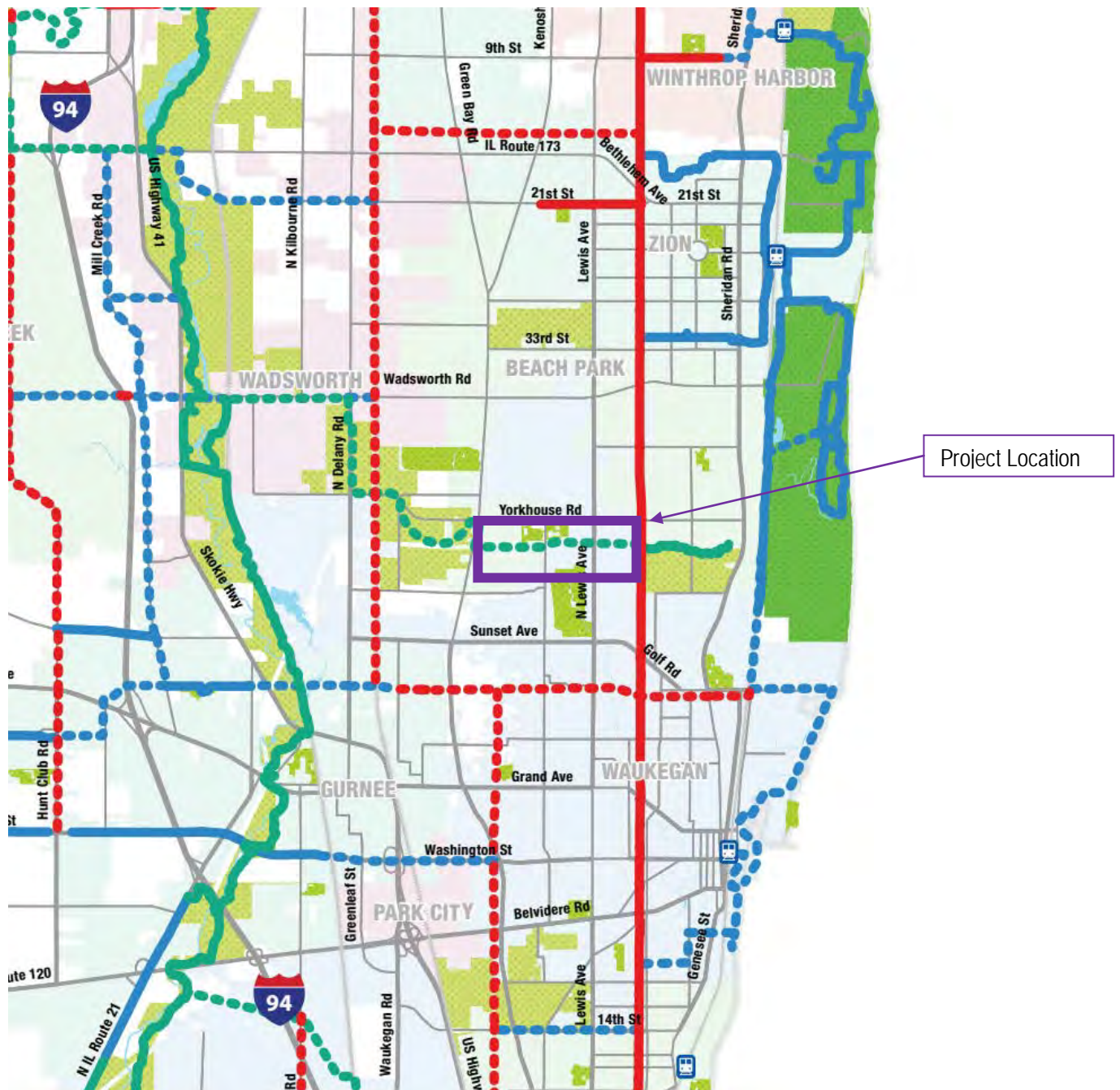
EXISTING BIKEWAYS

- Lake County Division of Transportation
- Lake County Forest Preserve
- Other Jurisdiction

EXISTING ATTRACTIONS

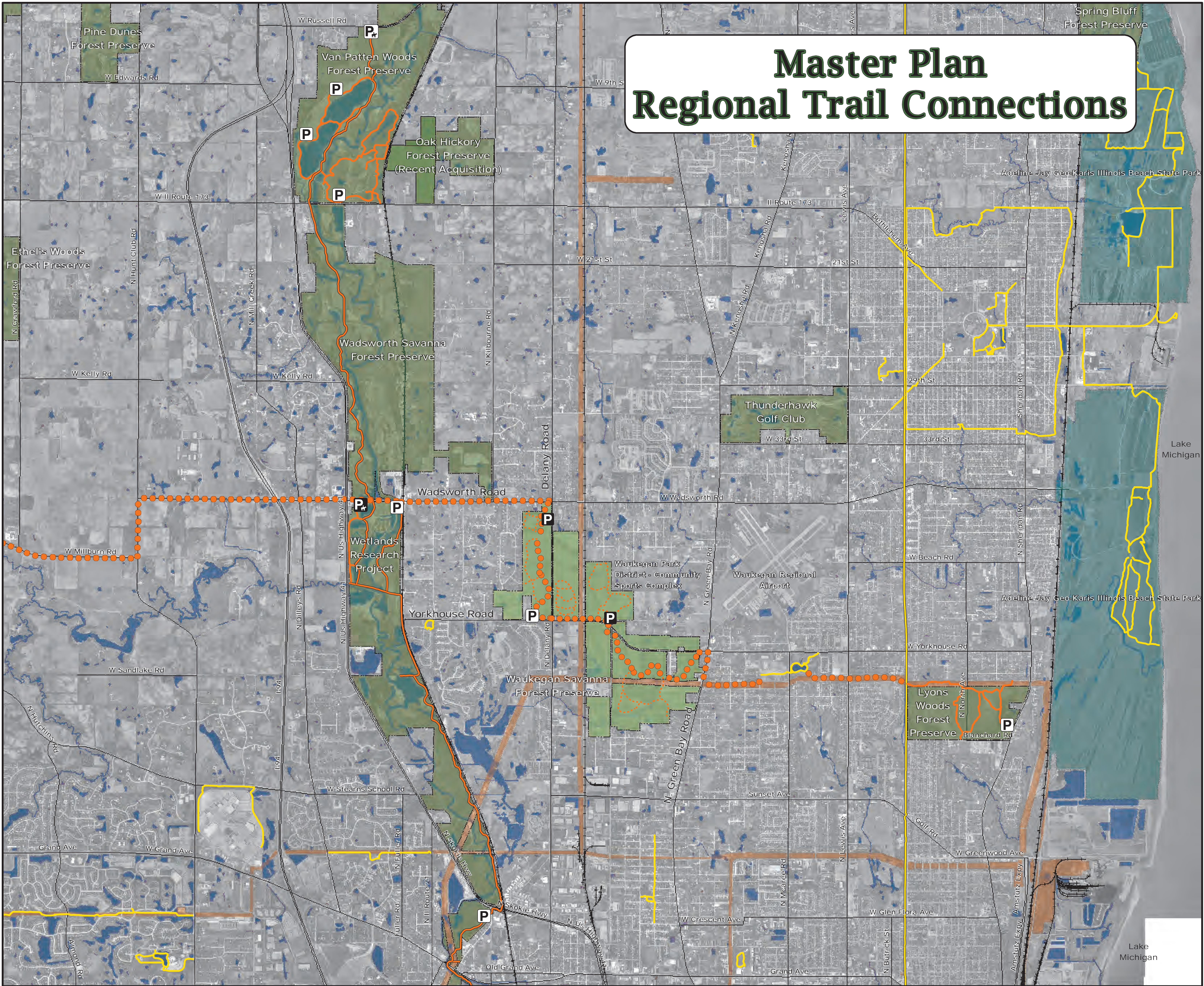
- Metra Stations
- State Park
- Lake County Forest Preserves
- Other Parks





Source: Lake County Department of Transportation 2040 Non-Motorized Plan

Master Plan Regional Trail Connections



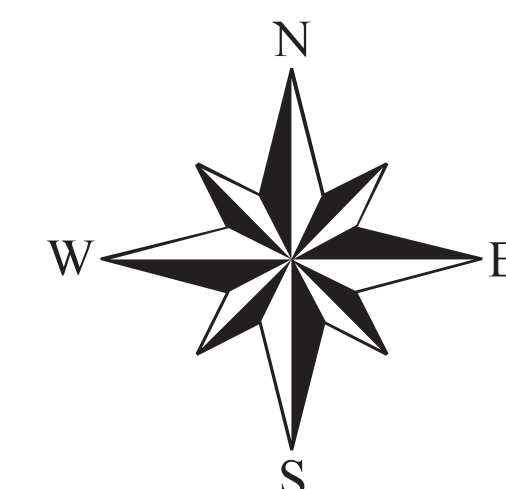
Waukegan Savanna Forest Preserve

- Regional Trail - Proposed
- DesPlaines River Trail & Connections
- Forest Preserve Trail - Proposed
- Robert McClory Bike Path
- Forest Preserve Trail
- Other Trails - State or Local

- Forest Preserve Boundary
- Waukegan Savanna
- Forest Preserve
- State Park
- Major Water Body
- Major Roads
- Railroad

- ComEd
- Proposed Trailhead Parking Lot
- Proposed Expanded Trailhead/Horse Trailer Parking Lot
- Existing Forest Preserve Parking Lot & Trail Access
- Existing Forest Preserve Horse Trailer Parking Lot

NOTE:
The Regional Trail Connection that is located within Waukegan Savanna Forest Preserve will be completed as part of the Master Plan implementation. The segments located outside of the preserve will be completed as possible through public-private partnerships and implemented when planning has been completed and funding has been allocated.



Lake County Forest Preserves
www.LCFPD.org

Planning, Conservation & Development Department
32492 North Almond Road
Grayslake, IL 60030
(847) 968-6301

0 0.5 1 Miles

2007 Aerial Photograph

Forest Preserve Board Approved - September 14, 2010

